

WATERSPREADING

Design Survey

The following information shall be obtained and recorded in the field notes on a plain tablet sheet.

- a. Topography of spreading area.
- b. Detailed topography of diversion site.
- c. Profile and cross-section of ditch and dike locations.
- d. Soils investigations as needed.

Design Data

The following will be considered minimum in the design of waterspreading systems. The information will be recorded in the design notes with appropriate data entered on the construction drawings:

- a. Hydrology, including yield data.
- b. Hydraulic design of ditches, canals, and dikes.
- c. Computation of quantities.
- d. Records indicating NRCS obligations regarding State and Federal regulations including NEPA requirements have been met.

Drawings and Specifications

The construction drawings shall include but will not be limited to the following:

- a. Overall plan view of the system.
- b. Structure details including sectional views.
- c. Cross-sections of dikes and canals.
- d. Location of appurtenant structures.
- e. Borrow area locations.
- f. Table of quantities.
- g. Location map.

Practice specifications along with applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction.

Layout Survey Notes

The following information shall be recorded in the field notes:

- a. Centerline and slope stakes for all dikes and canals.

- b. Location, alignment and reference stakes for all structures.

Compliance Checks

The complexity of the system will dictate the need for compliance checks during construction. All compliance checks shall be recorded in the field notes. Narratives of construction checks shall be recorded in the job diary or on a sheet in the field notes. Compliance checks shall include but will not be limited to the following:

- a. Profile and cross-sections of ditches and dikes.
- b. Elevation and dimensions of structures.
- c. Quantity and quality of materials.
- d. Statement of compliance.

As-Built Plans

As-Built plans shall be prepared for all waterspreading systems. These plans shall reflect all significant changes in linear measurements, quantities, alignment or design changes. If there were no changes the original drawings shall be marked "As-Built".